Notice of Allowability	Application No.	Applicant(s)	
	09/938,799	DHARAP, SANJEEV	
	Examiner	Art Unit	
	Jean M Corrielus	2162	

-- Th MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *to the amendment filed on June 14, 2004*.

2. ☒ The allowed claim(s) is/are *1-3,5-12,15-17,19-23 and 25*.

3. ☒ The drawings filed on *14 June 2004* are accepted by the Examiner.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachm nt(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 10/15/02
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

JEAN M. CORRIELUS
PRIMARY EXAMINER

DETAILED ACTION

1. This office action is in response to the amendment filed on June 14, 2004, in which claims 1-28 are presented for further examination.

INFORMATION DISCLOSURE STATEMENT

2. The information disclosure statement (IDS) filed on October 15, 2002 complies with the provisions of M.P.E.P. 609. It has been placed in the application file. The information referred to therein has been considered by the examiner.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Joseph P. O'Malley (Reg. no. 36,226), on December 6, 2004.

The application has been amended as follows:

In the claim:

Please amend the claims as the following:

1. (Currently Amended) A computer implemented method of processing a data string in a web page, comprising:

mapping data string[s] to a fixed-length string, wherein said fixed length string includes a unique identifier associating said data string with said web page;

replacing the data string in the web page with the fixed-length string;

maintaining a correlation between the fixed-length string and the data string such that the data string can be determined using the fixed-length string, wherein the correlation is memory-based with a table mapping the fixed length string to the data string, or function-based with a reversible hash correlating the fixed length string and the data string; and

transmitting the page with said fixed-length string.

2. (Original) The method of claim 1 wherein the method is performed on a web server which provides said web page.

3. (Original) The method of claim 1 wherein said method is performed on an intermediate server which receives said web page from a web content server.

Cancel claim 4 without prejudice.

5. (Original) The method of claim 1 wherein said web page has a unique page ID.

6. (Original) The method of claim 1 wherein said step (a) comprises generating a random identifier for said data string and creating a table associating said random identifier with said data string.

7. (Original): The method of claim 1 wherein said data string comprises at least one universal resource locator.

8. (Original) The method of claim 1 wherein said data string comprises meta-data.

9. (Original) The method of claim 1 wherein said data string comprises a plurality of universal resource locators, each said universal resource locator being mapped into a table uniquely associated with said web page, each said universal resource locator having a unique identifier.

10. (Original) The method of claim 1 wherein said step (b) comprises generating a new web page wherein said data string is replaced with said fixed-length string.

11. (Original) The method of claim 10 wherein said data string comprises a plurality of universal resource locators, and each said universal resource locator is replaced with a fixed-length string.

12. (Currently Amended) A computer implemented method of converting meta-data in a web page to a fixed-length string, comprising:

converting a string of meta-data to a random fixed-length data string, wherein said fixed length string includes a unique identifier associating said string with said web page;

associating the string of meta-data with the fixed-length data string;

replacing the associated string of meta-data in the web page with the fixed-length data string;

maintaining a correlation between the fixed-length string and the metadata such that the data string can be determined using the fixed-length string, wherein the correlation is memory-based with a table mapping the fixed length string to the string of metadata, or function-based with a reversible hash correlating the fixed length string and the metadata; and

transmitting the page with said fixed-length string.

Delete claims 13, and 14 without prejudice.

15. (Currently Amended) The method of claim 12 wherein said step (a) comprises performing a fixed-length hash on said data string, uniquely identifying said web page, and combining said uniquely identified [identifier for] said web page with said fixed-length hash.

16. (Original) The method of claim 12 wherein said step (a) comprises performing a reversible hash on said string of meta-data and associating a key with said web page.

17. (Currently Amended) A method of processing a web page, including a string of meta-data transmitted on a network, comprising:

converting a string of meta-data to a fixed-length string, wherein said fixed length string includes a unique identifier associating said data string with said web page;

mapping said string meta-data to a fixed-length string;

maintaining a correlation between the fixed-length string and the string of meta-data such that the string of meta-data can be determined using the fixed-length string, wherein the correlation is memory-based with a table mapping the fixed length string to the string of meta-data, or function-based with a reversible hash correlating between the fixed length string and the string of meta-data; and

transmitting the fixed-length string with in place of the string of meta-data.

Cancel claim 18 without prejudice.

19. (Original) The method of claim 17 wherein said web page is provided with a unique ID.

20. (Original) The method of claim 17 wherein said step (a) comprises generating a random identifier for said fixed-length string and creating a table associating said random identifier with said fixed-length string.

21. (Original) The method of claim 17 wherein said string of meta-data comprises at least one universal resource locator.

22. (Original) The method of claim 17 wherein said step (b) comprises generating a new web page wherein said meta-data string is replaced with said fixed-length string.

23. (Original) The method of claim 17 wherein said step (a) comprises performing a fixed-length hash on said meta-data, uniquely identifying said web page, and combining said unique identifier for said web page with said fixed-length hash.

Cancel claim 24 without prejudice.

25. (Currently amended) A computer implemented method of processing a web page comprising:

converting a URL[s] on a first web page into a fixed-length string which is transmitted to a user, wherein said fixed length string includes a unique identifier associating said data string with said web page;

mapping said URL to a fixed-length string;

maintaining a correlation between the fixed-length string and the URL such that the URL can be determined using the fixed-length string, wherein the correlation is memory-based with a table mapping the fixed length string to the URL, or function-based with a reversible hash correlating the fixed length string and the URL;

receiving a request from the user for information associated with the fixed-length string;

determining the URL from the fixed-length string; and

using the URL associated with the fixed-length string to find a second page to provide information to the user.

Cancel claims 26-28 without prejudice.

Allowable Subject Matter

3. Claims 1-3, 5-12, 15-17, 19-23, and 25 are allowable in light of the Applicants arguments and light of the prior art made of record.

Reasons for Indicating Allowable Subject Matter

4. The following is an examiner's statement of reasons for allowance: Upon searching a variety of databases, the examiner respectfully submits that "maintaining a correlation between the fixed-length string and the string of meta-data such that the string of meta-data can be determined using the fixed-length string, wherein the correlation is memory-based with a table mapping the fixed length string to the string of meta-data, or function-based with a reversible hash correlating between the fixed length string and the string of meta-data" in claim 1, 12, 17 and 25, in conjunction with all other limitations of the dependent and independent claims are not taught nor suggested

by the prior art of record (PTO-1449 and 892). Therefore, all pending claims 1-3, 5-12, 15-17, 19-23, and 25 is hereby allowed.

Since allowable subject matter has been indicated, applicant is encouraged to submit formal drawings in response to this Office action. The early submission of formal drawings will permit the Office to review the drawings for acceptability and to resolve any informalities remaining therein before the application is passed to issue. This will avoid possible delays in the issue process.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean M. Corrielus whose telephone number is (571) 272-4032. The examiner can normally be reached on Monday - Friday (8:00Am - 7:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Breene can be reached on (703) 305-9790. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jean M. Corrielus

Patent Examiner

December 6, 2004